



**Massachusetts Bay
Transportation Authority**

Safety & Security Certification Update

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MBTA Board of Directors Meeting

July 24, 2025



Discussion Topics

- Safety & Security Certification Update
- Recent Incidents and Corrective Actions

MBTA Safety and Security Certification (SSC)

- Safety and Security Certification (SSC) is defined by the Federal Transit Administration (FTA) as: “The series of processes that collectively verify the Safety and Security Readiness of a project for public use.”
- SSC integrates Safety and Security Requirements into the project lifecycle to achieve **acceptable** risk through MBTA’s Safety Risk Management (SRM) and Risk-Based Hazard Analysis (RBHA) processes.

Safety & Security Certification Overview

- Safety & Security Certification is embedded in project delivery from project design to project completion and/or start of revenue services
- Fosters early project engagement and cross-agency team collaboration and coordination
- Builds institutional knowledge and supports safety culture at the MBTA
- SSC process is used to:
 - Identify potential hazards and security vulnerabilities
 - Develop mitigations
 - Track and verify incorporation of mitigations

Safety & Security Certification Background and Timeline

- FTA Safety Management Inspection Special Directive 22-9, Finding #3 identified the following improvement areas:
 - Update Safety & Security Certification Program Plan (SSCPP)
 - Provide training to affected personnel
 - Ensure proper staffing levels to support SSCPP
- New updated SSCPP incorporating Industry Best Practices approved by FTA in February 2024
- Safety, in conjunction with QCOO, completed 1,588 three-tier internal training sessions for MBTA employees and contractors in June 2024
- Finding closed by FTA in November 2024

Safety & Security Certification Accomplishments

Successes

- Early engagement in project timelines to determine the level of certification required and initiating the process
- Consistent participation by stakeholders in Project-Specific Safety Management Working Groups

Achievements

- SSC has been ingrained into project and procurement process which avoids delays
- Training offered to contractors and design consultants
- Strong SSC project tracking system

Safety & Security Certification: Statistics and Projects

- Safety Engineering – Certification engaged in 107 active projects:
 - 14 infrastructure projects across all modes have received Interim Certification Certificates
 - 65 Vehicles received certification and entered revenue service
- Notable projects include:
 - Type 10 Green Line Vehicles
 - Green Line Core Capacity (for Type 10)
 - Quincy Battery Electric Bus Garage
 - North Station Commuter Rail – Draw 1 Bridge
 - Green Line Train Protection System 2.0
 - Speed Increases

Safety & Security Certification Teamwork

2023-2024 Certification Team

- Challenges getting proper candidates for positions
- Team consisted of:
 - 1 – Director
 - 1 – Fire Life Safety Lead
 - 2 – System Safety Specialist (multiple unfilled positions)

2024-2025 Certification Team

- Workforce Assessment and Restructuring Team
 - 1 – Director
 - 1 – Deputy Director
 - 2 – Fire Life Safety Leads
 - 4 – Safety Leads, one each in:
 - Track
 - Signals/Power
 - Facilities
 - Vehicles
 - 8 – System Safety Specialist
 - 3rd Party Expert Support

Recent Incidents and Corrective Actions

Questions?
